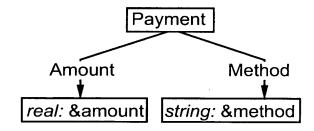
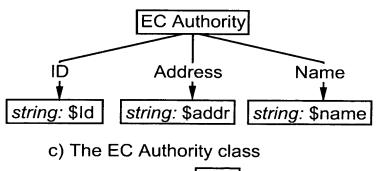
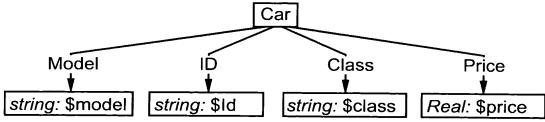


a) The Purchase Contract Class



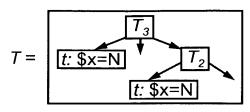
b) The payment class

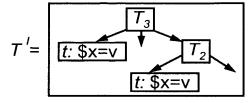




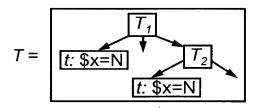
d) The Car Class

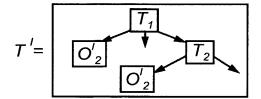
Fig. 1



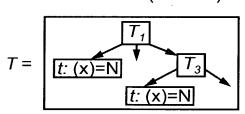


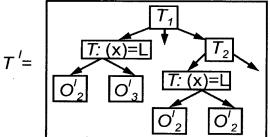
(a) T is tree resulting from the assignment of the atomic value v to atomic variable Sx in T



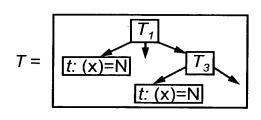


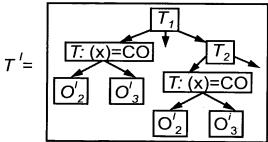
(b) T' is tree resulting from the assignment of the instance  $O'_2$  of type t' to the class variable Sx in  $T_1$ . In T' the root of  $O'_2$  is labeled with the variable (t: Sx = t')



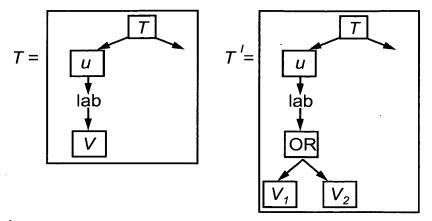


(c) T is tree resulting from the assignment of the list of instances  $(O_2^i, O_3^i)$  to the class list variable(x) in T.

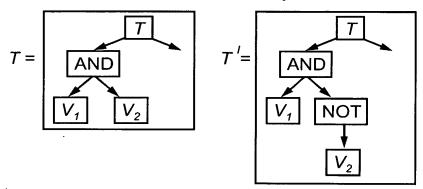




(d) T' is tree resulting from the definition of the list containment constraint (x)  $(O'_2, O'_2)$  in T.



(a) T' is the result of adding an OR vertex to T- Note that  $V_1$  and  $V_2$  must be isomorphic to V up to renaming of variables. Adding an AND vertex is done in a similar way.



(b) T is the result of adding a NOT vertex to T - Note that NOT vertices can be added only subtrees rooted at an AND vertex

Fig. 3

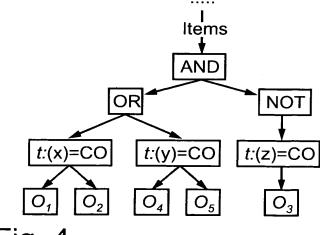
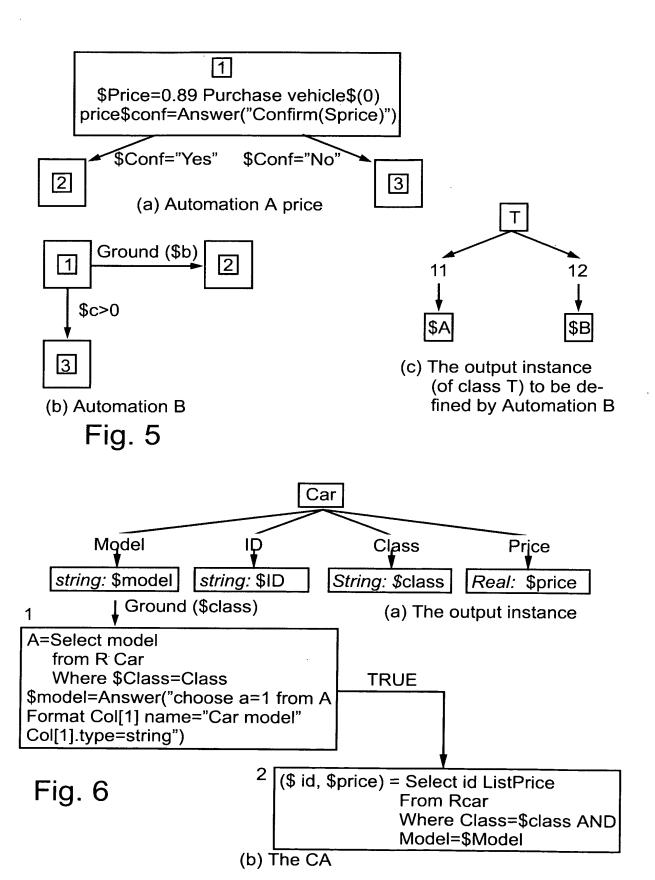
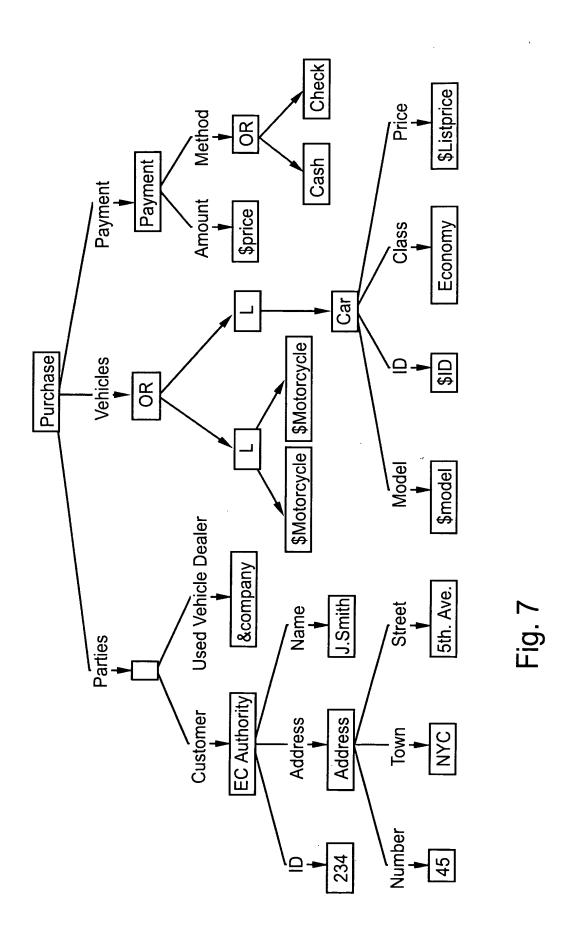
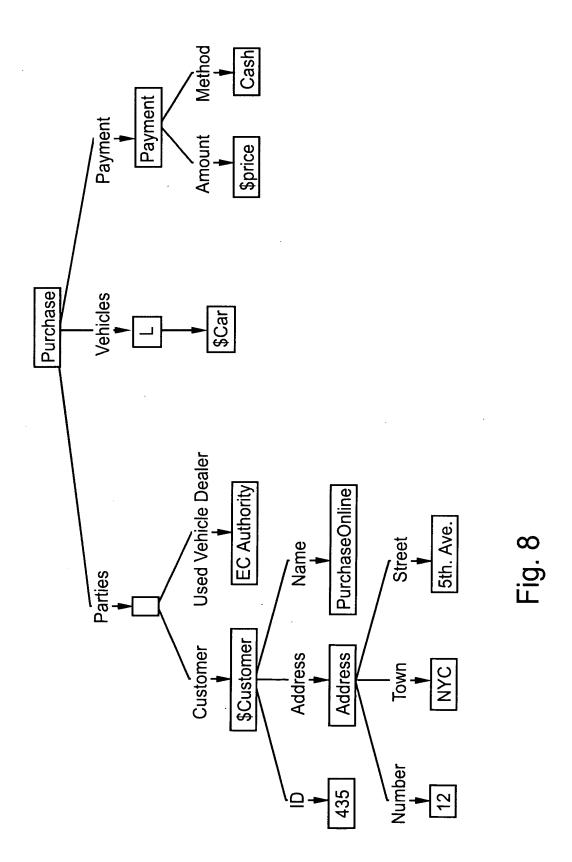
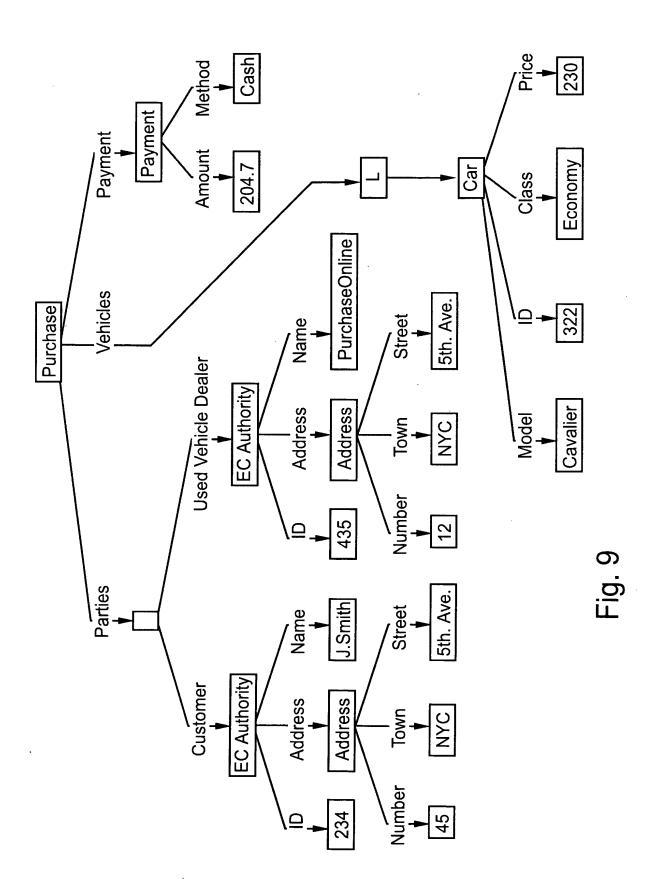


Fig. 4









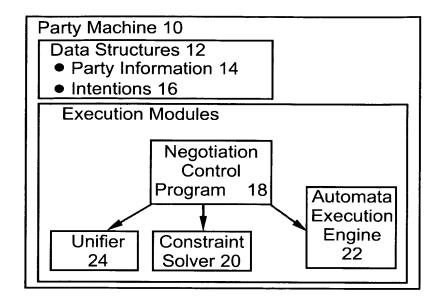


Fig. 10

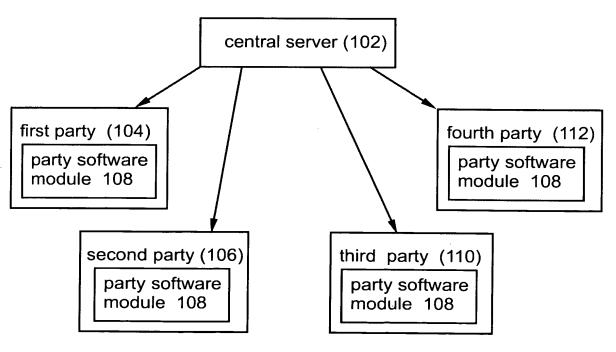


Fig. 11

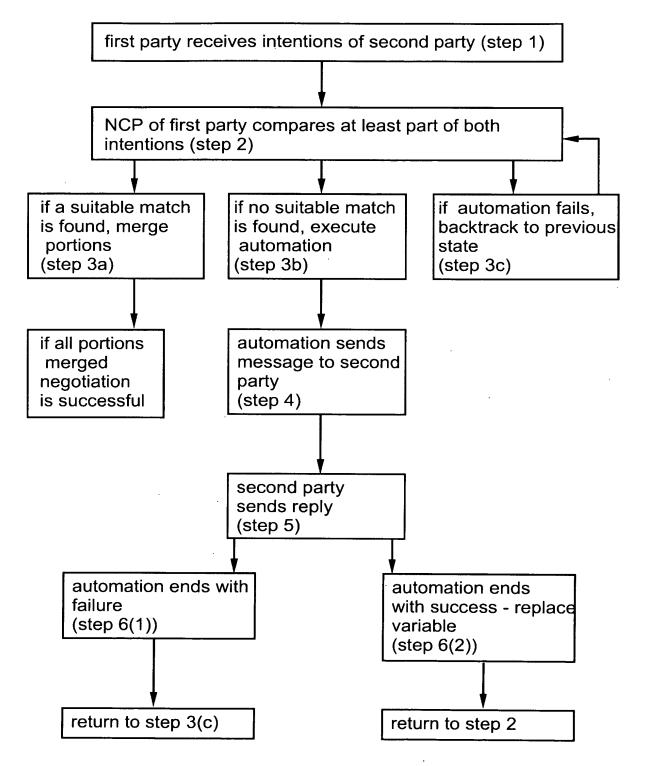
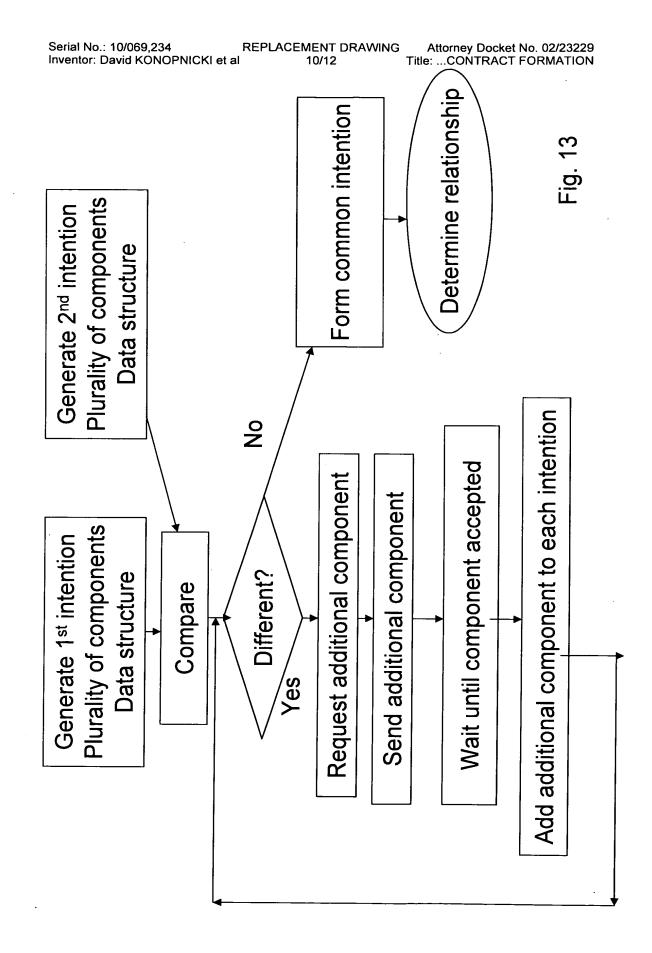
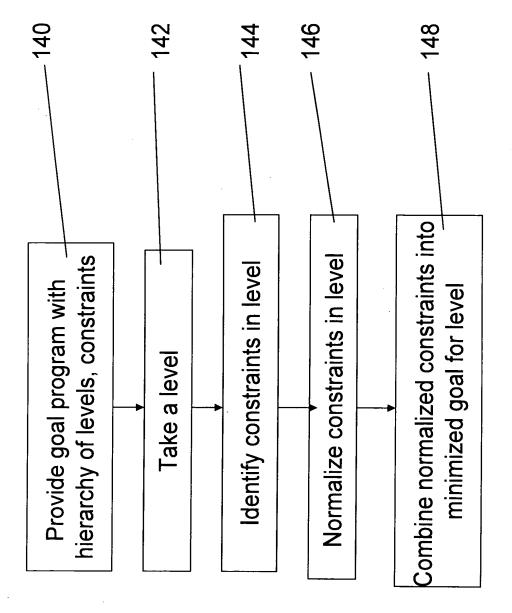


Fig. 12





-ig. 14

Serial No.: 10/069,234 REPLACEMENT DRAWING Attorney Docket No. 02/23229 Inventor: David KONOPNICKI et al 12/12 Title: ...CONTRACT FORMATION

Determine relationship Plurality of components Provide 2nd intention Data structure Alter one of the intentions with merged portion Yes Generate merged portion using Compare intentions value from dispatch With component value Exchange dispatch Match? Plurality of components Provide 1st intention Data structure